

FIG. 2

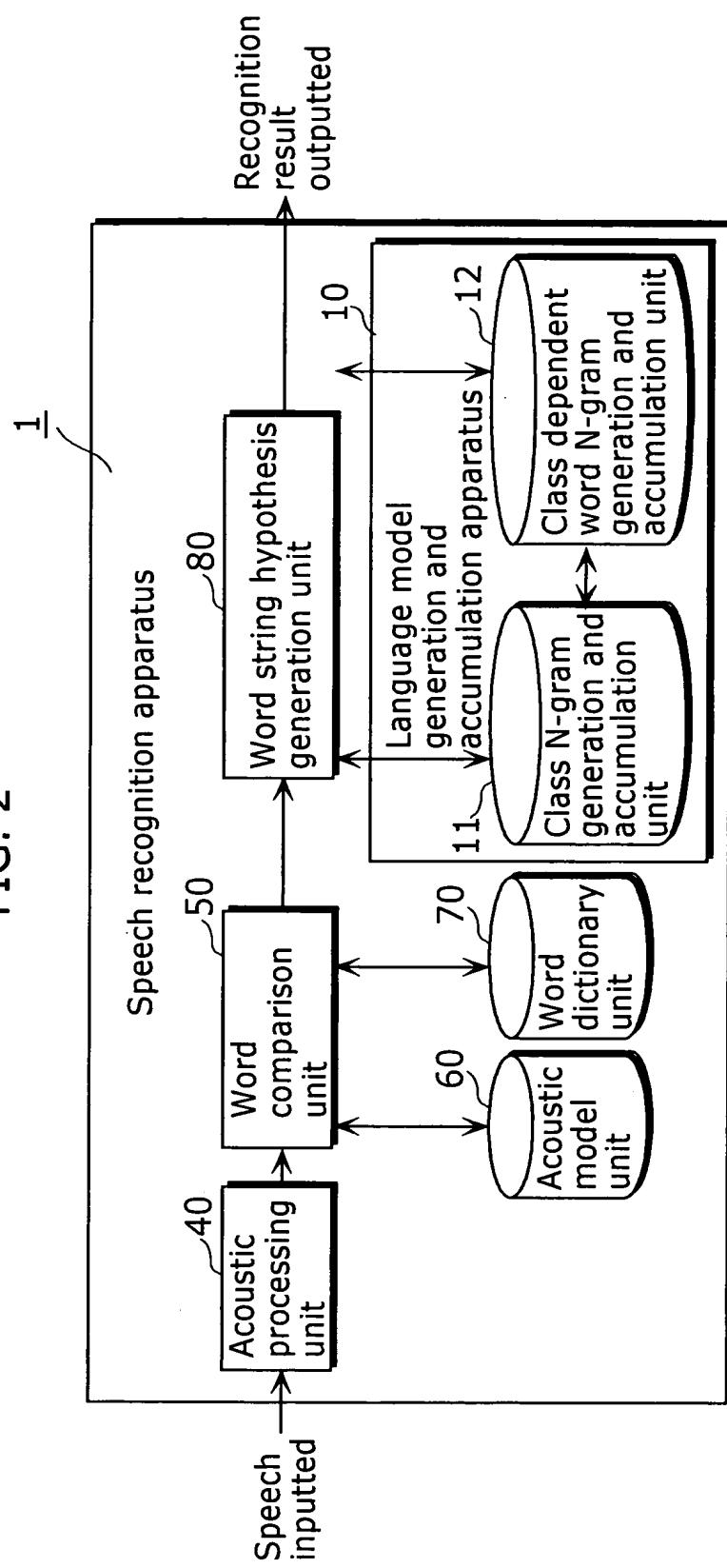


FIG. 3

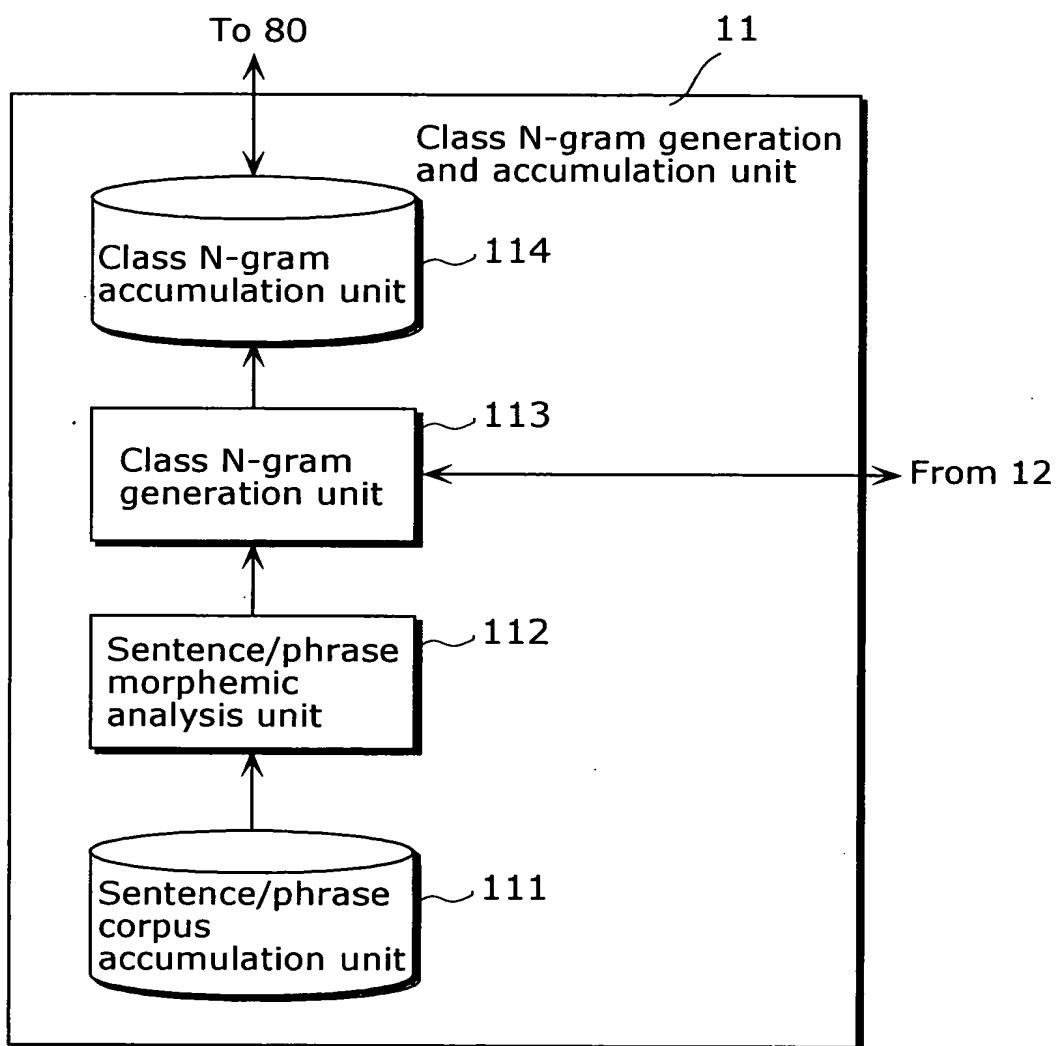


FIG. 4

Sentence/phrase corpus accumulation unit 111

Ashita no tenki yoho worokuga shite
Ashita no Taiyo wo Ute wo rokuga
Shiretoko no Shinpi wo miru
⋮

FIG. 5

Class N-gram accumulation unit 114

Word string	$P(W_i   W_{i-1})$
<SS>ashita	0.45
ashita no	0.41
no<title>	0.35
<title>wo	0.59
wo rokuga	0.43
rokuga shite	0.35
shite<SE>	0.33
rokuga<SE>	0.31
<SS><title>	0.51
⋮	⋮

FIG. 6

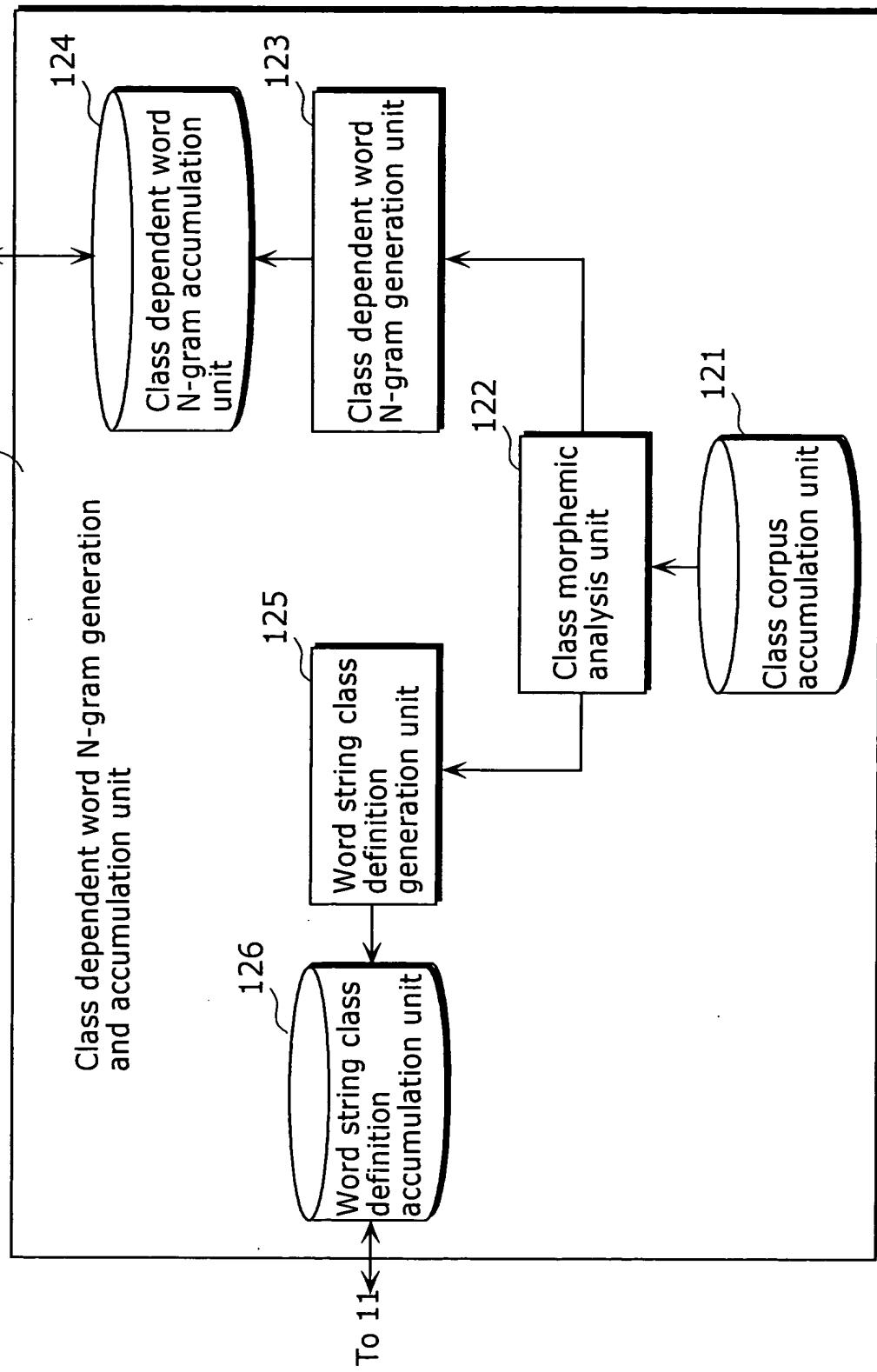


FIG. 7

Class corpus accumulation unit 121

Tenki yoho
Taiyo wo Ute
Shiretoko no Shinpi
:
Charlie Umi
Ikeno Kingyo
:

FIG. 8

Class dependent word N-gram accumulation unit 124

Class Word string	$P(W_i   W_{i-1})$
<CS>-tenki	0.11
tenki-yoho	0.15
yoho-<CE>	0.16
<CS>-taiyo	0.13
taiyo-wo	0.11
wo-ute	0.10
ute-<CE>	0.12
<CS>-shiretoko	0.09
shiretoko-no	0.08
no-shinpi	0.07
shinpi-<CE>	0.11
⋮	⋮
<CS>-ikeno	0.08
ikeno-kingyo	0.05
kingyo-<CE>	0.07
<CS>-charlie	0.07
charlie-umi	0.05
umi-<CE>	0.16
⋮	⋮

FIG. 9

Word string class definition accumulation unit 126

Word string class	Word string
title	<CS>-tenki-yoho-<CE>
	<CS>-taiyo-wo-ute-<CE>
	<CS>-shiretoko-no-shinpi-<CE>
	:
Personal name	<CS>-charlie-umi-<CE>
	<CS>-ikeno-kingyo-<CE>
	:
:	:

FIG. 10

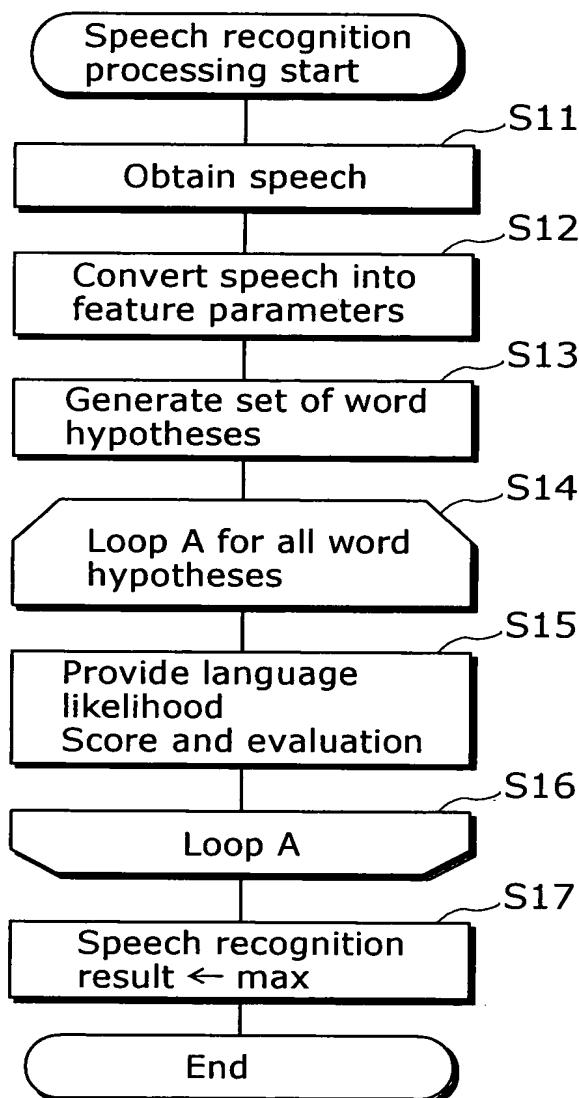


FIG. 11

Word string	Probability
$\langle \text{SS} \rangle a \ b \ c \ d \langle \text{SE} \rangle$	$P(a, b, c, d)$
$\langle \text{SS} \rangle C \ b \ c \ d \langle \text{SE} \rangle$	$P(C, b, c, d) \cdot P(a   C)$
$\langle \text{SS} \rangle C \ c \ d \langle \text{SE} \rangle$	$P(C, c, d) \cdot P(a, b   C)$
$\vdots$	$\vdots$
$\langle \text{SS} \rangle a \ C \ c \ d \langle \text{SE} \rangle$	$P(a, C, c, d) \cdot P(b   C)$
$\langle \text{SS} \rangle a \ C \ d \langle \text{SE} \rangle$	$P(a, C, d) \cdot P(b, c   C)$
$\vdots$	$\vdots$
$\vdots$	$\vdots$
$\vdots$	$\vdots$
$\langle \text{SS} \rangle C \langle \text{SE} \rangle$	$P(a, b, c, d   C)$

FIG. 12

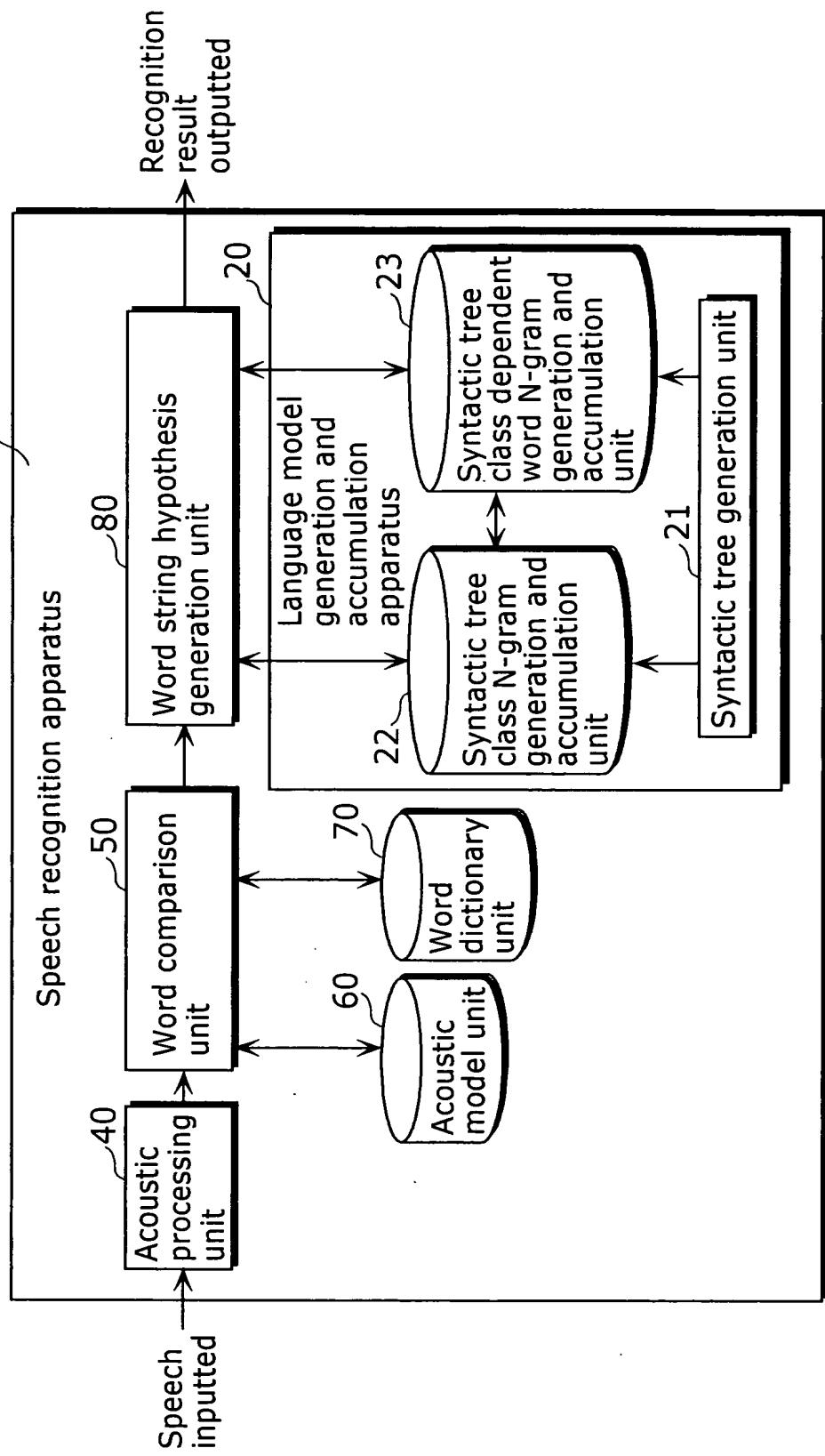


FIG. 13

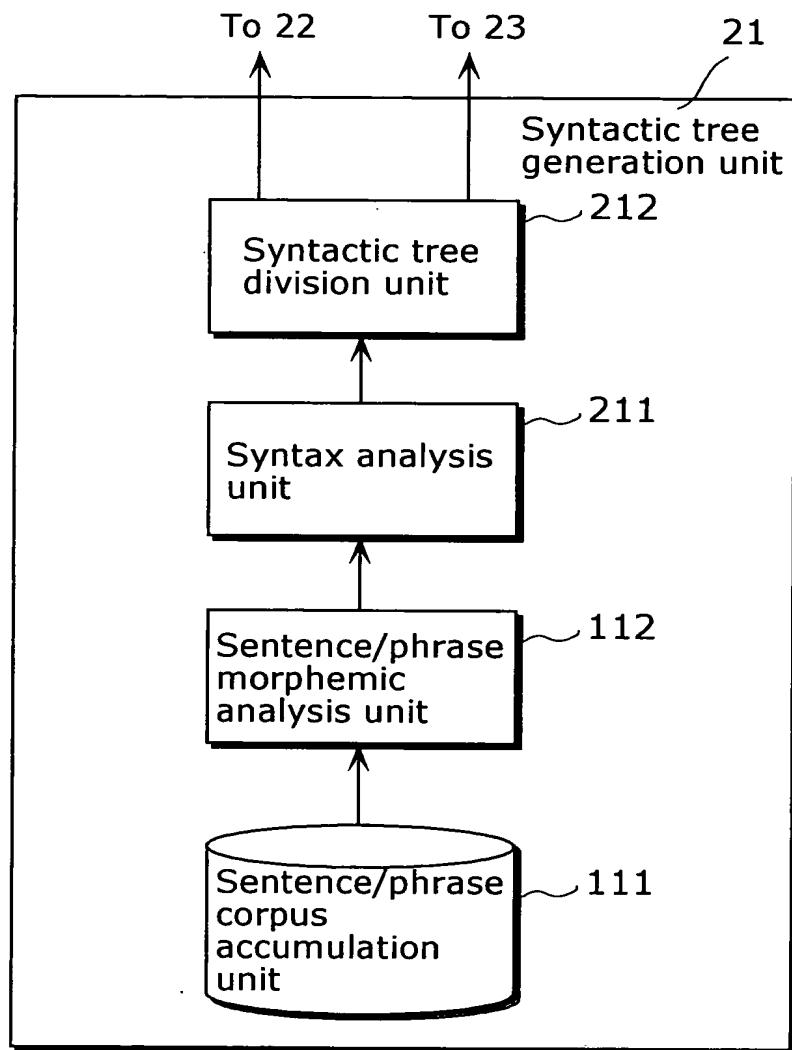


FIG. 14

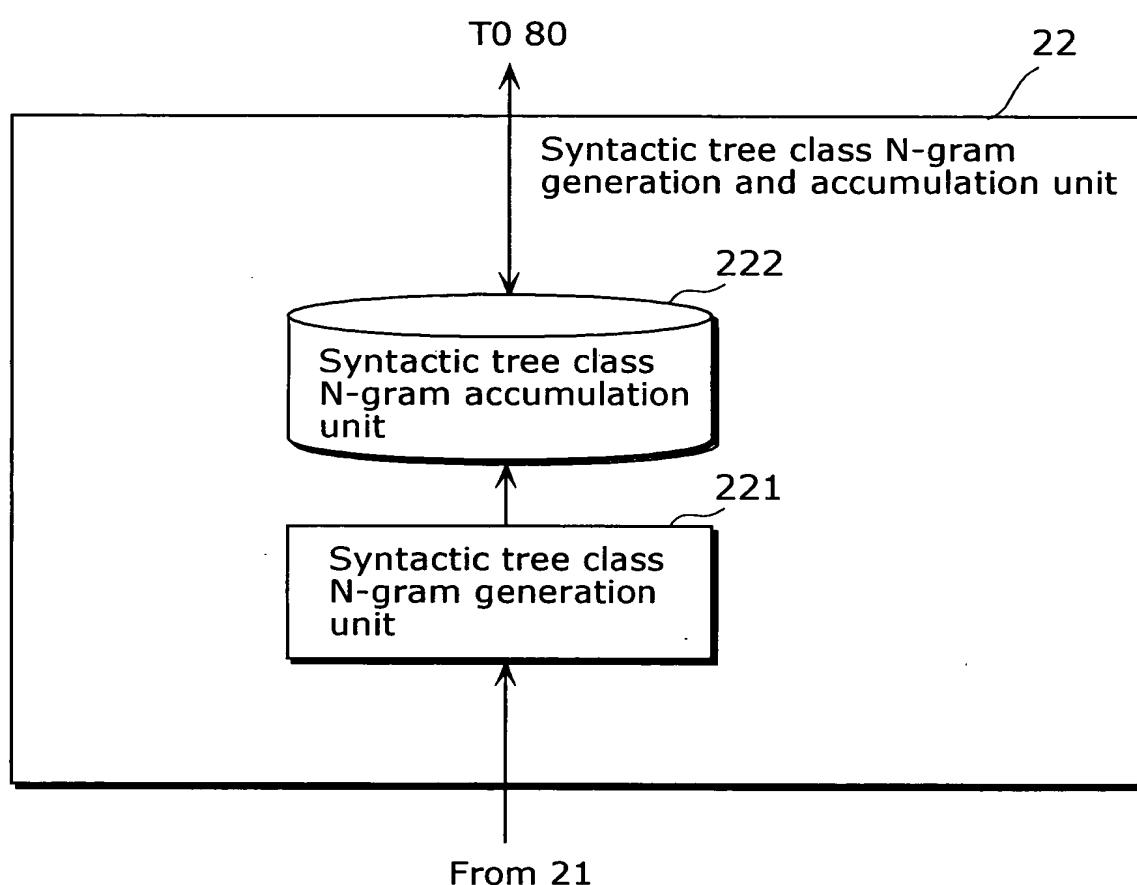


FIG. 15

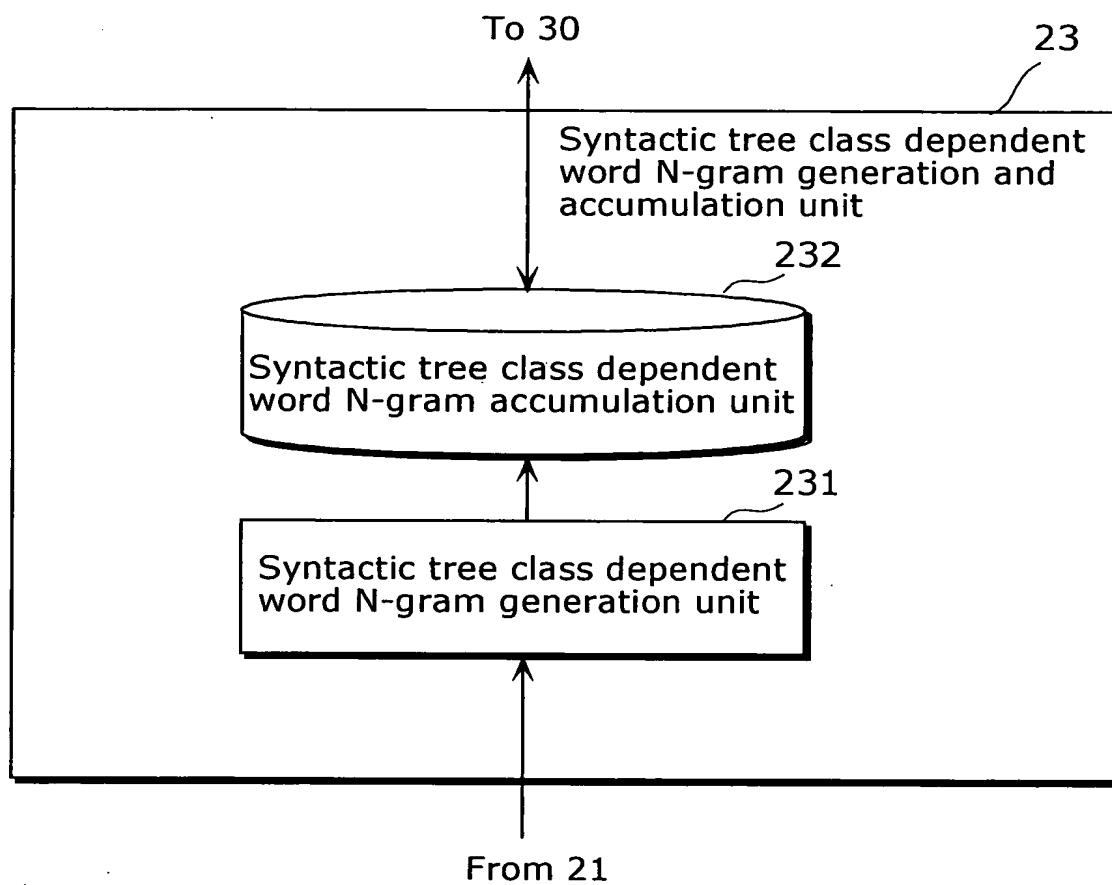


FIG. 16

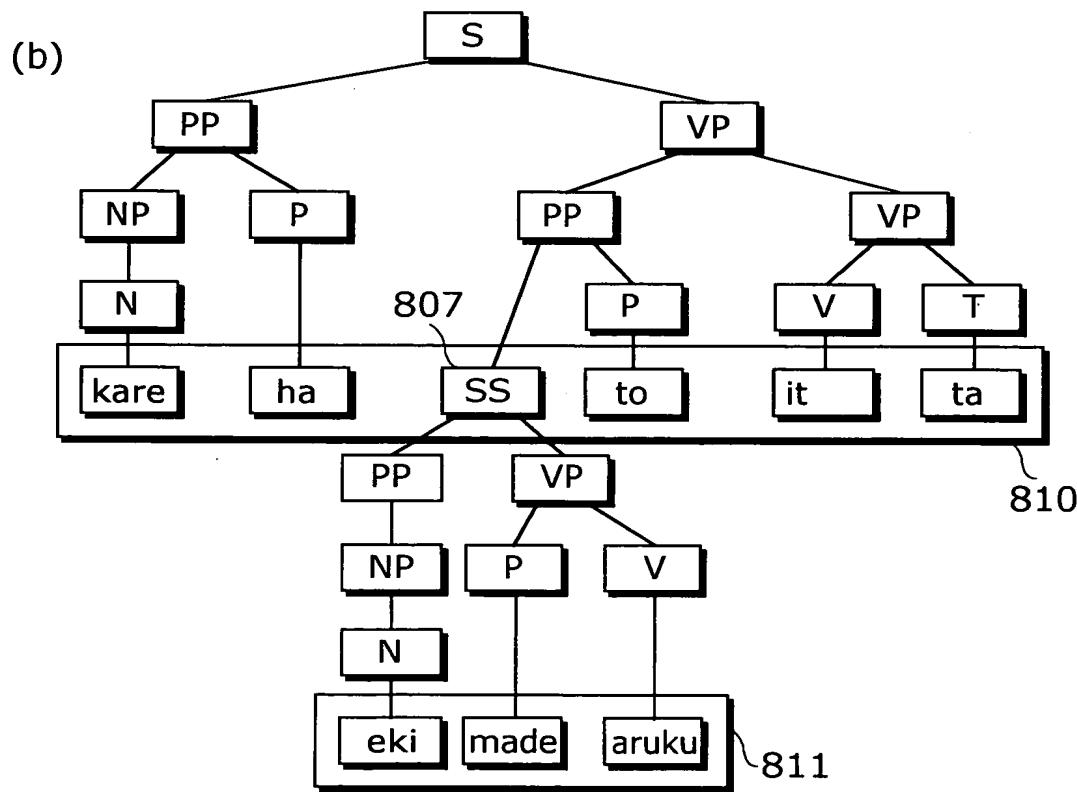
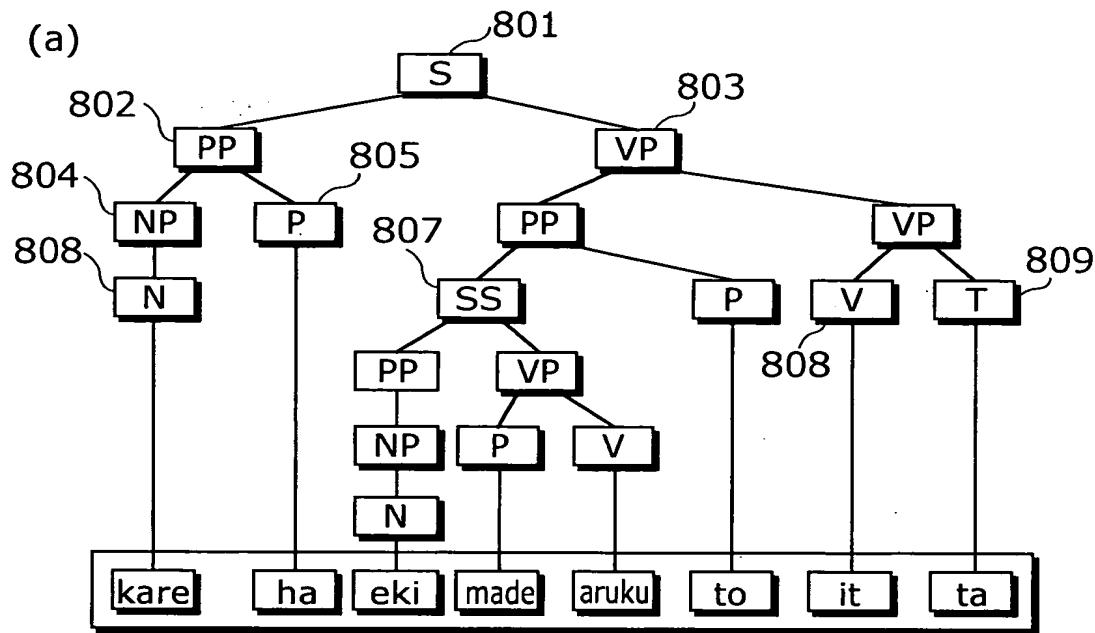


FIG. 17

3

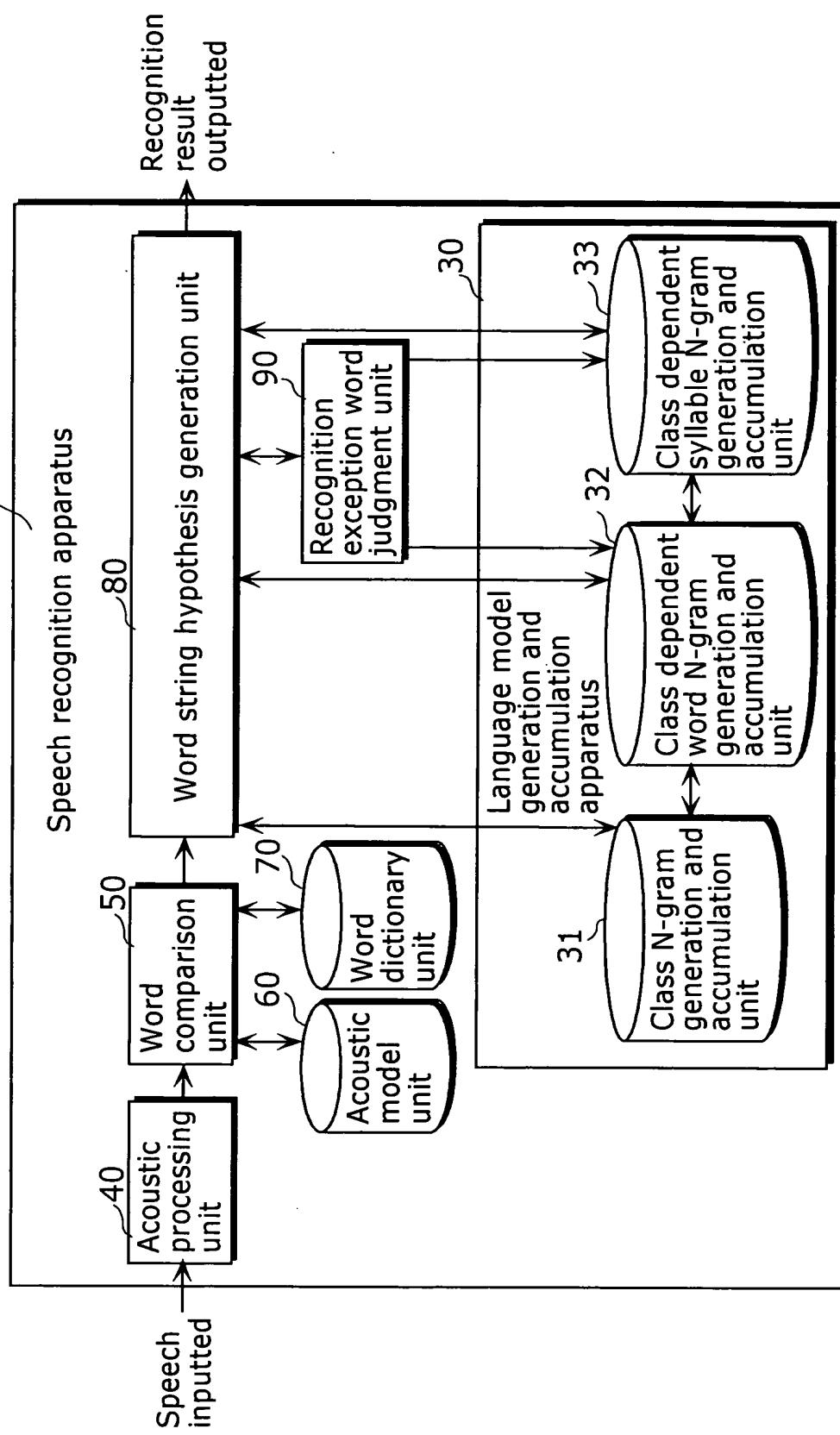


FIG. 18

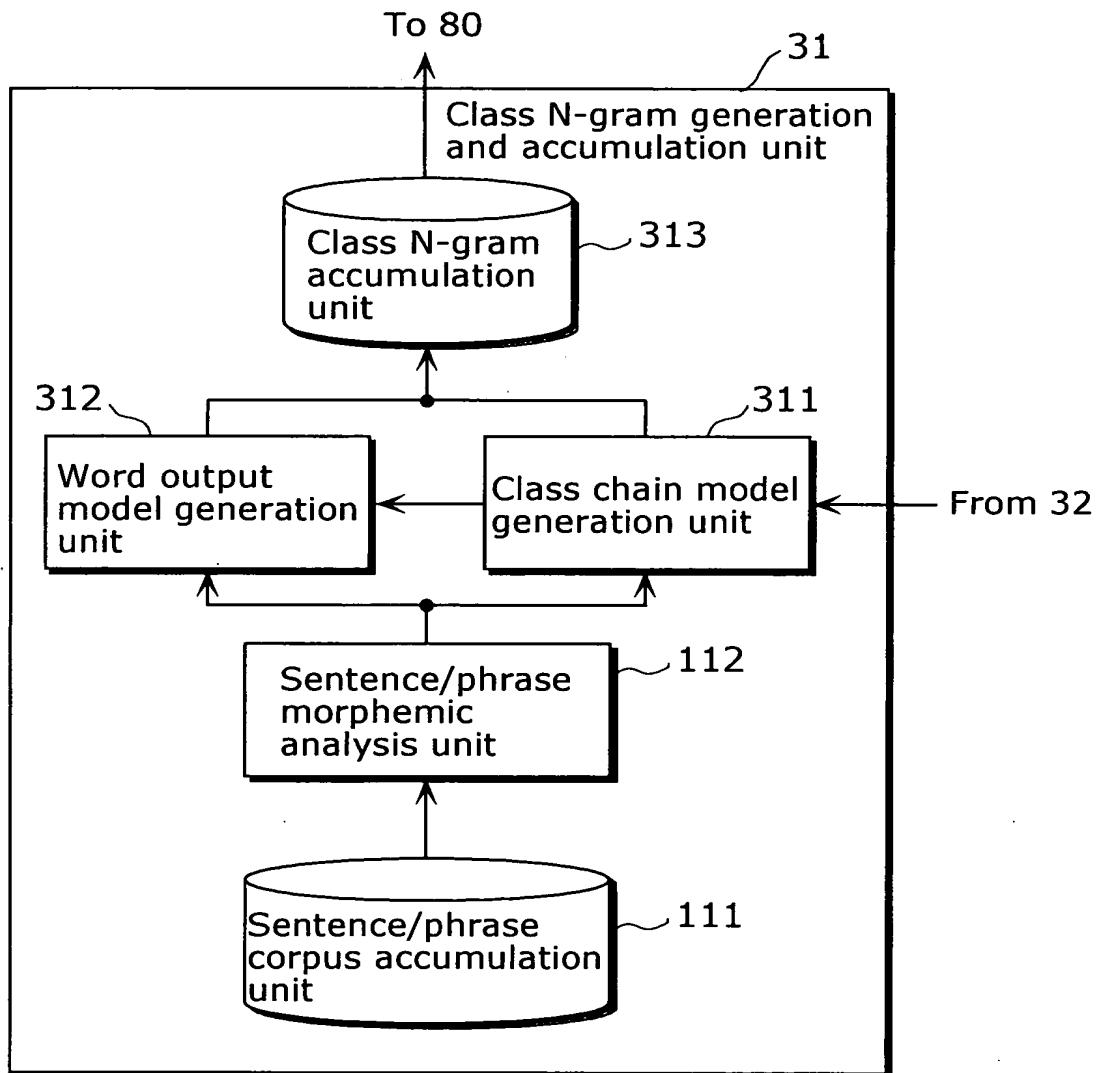


FIG. 19

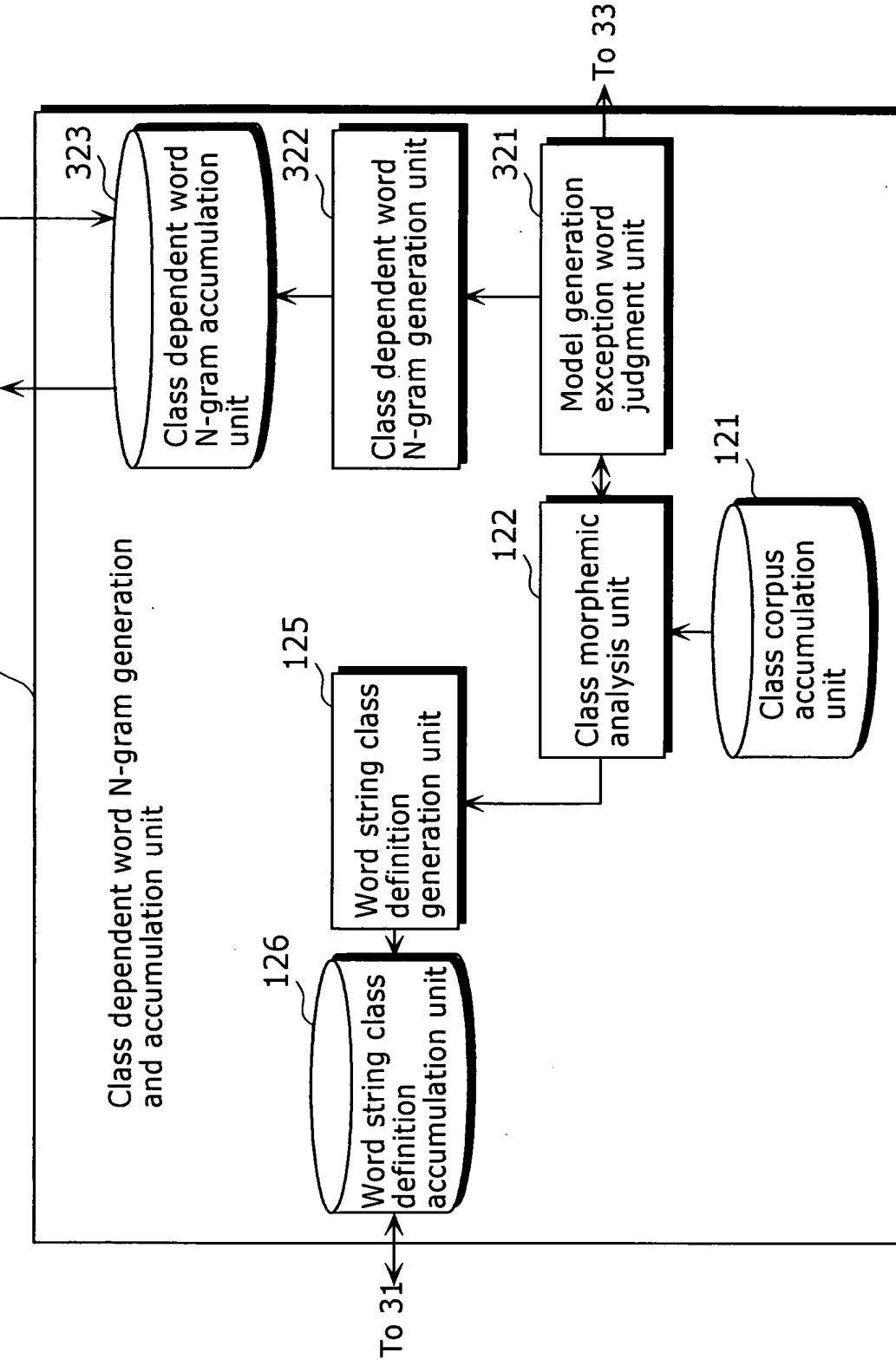


FIG. 20

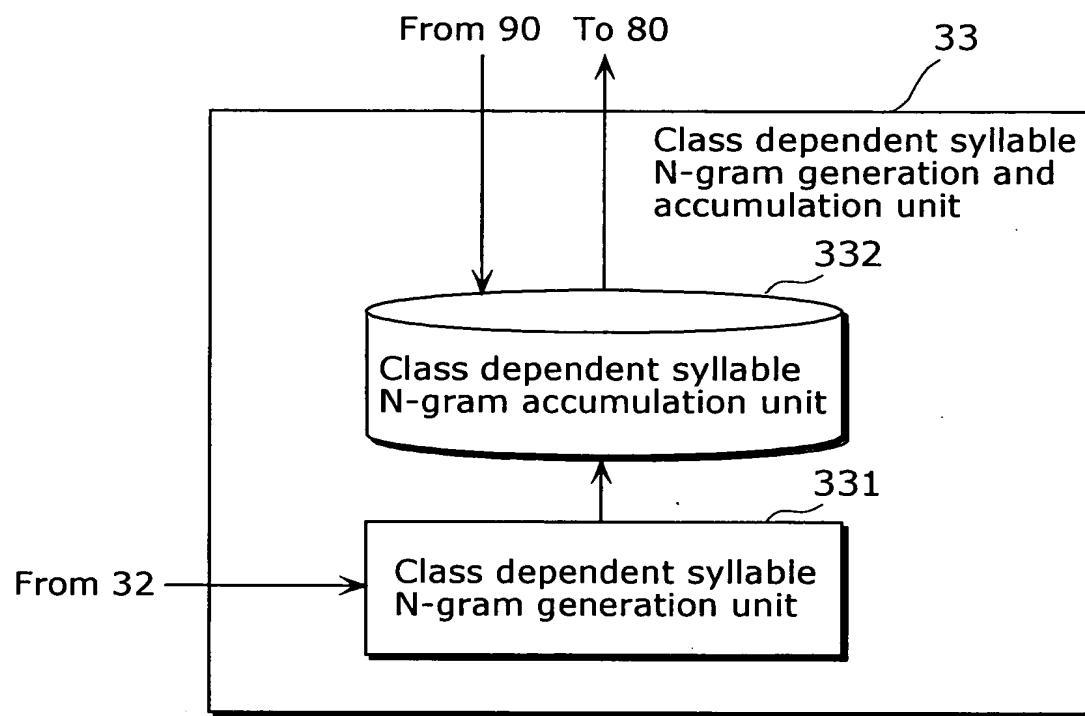


FIG. 21

Class dependent syllable N-gram accumulation unit 332



Syllable string	Probability
<MS>-shi	0.10
shi-re	0.09
re-to	0.06
to-ko	0.07
ko-<ME>	0.08
:	:

FIG. 22

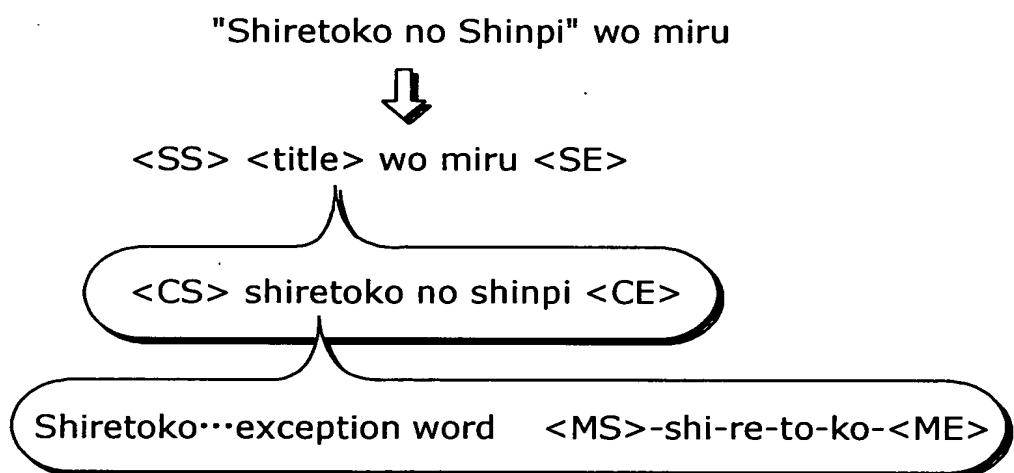


FIG. 23

